DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

Alutech United, Inc. 117 Dixon Street Selbyville, DE 19975

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "Piranha" Aluminum Accordion Shutter

APPROVAL DOCUMENT: Drawing No. 09-06, titled "Piranha Aluminum Accordion Shutter", sheets 1 through 7 of 7, prepared by Al-Farooq Corporation, dated August 25, 2009, last revision "B" dated December 09, 2011, signed and sealed by Javad Ahmad, P.E., on April 04, 2012, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 09-1015.06 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

Heling A. Molan NOA No. 12-0124.07 Expiration Date: 06/30/2015 Approval Date: 04/19/2012

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Alutech United, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #09-1015.06

A. DRAWINGS

1. Drawing No. 09-06, titled "Piranha Aluminum Accordion Shutter", sheets 1 through 7 of 7, prepared by Al-Farooq Corporation, dated August 25, 2009, last revision "A" dated May 18, 2010, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test report on Large Missile Impact Test, Uniform Static Air Pressure Test and Cyclic Wind Pressure Test of Accordion Shutter System, prepared by Fenestration Testing Laboratory, Inc., Report No. 5874, dated February 27, 2009, signed and sealed by Carlos S. Rionda, P.E.

C. CALCULATIONS

1. Comparative analysis and anchor calculation, dated September 28, 2009, Sheets A-1 through A-30, AP-1 through AP-17, & C-1 through C-24, prepared by Al-Farooq Corporation, signed and sealed by Arshad Viqar, P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. Test Report marked-up drawings and die drawings from Fenestration Testing Laboratory, Inc., Report No. 5874, dated February 27, 2009, signed and sealed by Carlos S. Rionda, P.E.

F. STATEMENTS

1. Statement letter of conformance by Al-Farooq Corporation, dated September 28, 2009, signed and sealed by Arshad Vigar, P.E.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 09-06, titled "Piranha Aluminum Accordion Shutter", sheets 1 through 7 of 7, prepared by Al-Farooq Corporation, dated August 25, 2009, last revision "B" dated December 09, 2011, signed and sealed by Javad Ahmad, P.E., on April 04, 2012.

Helmy A. Makar, P.E., M.S. PERA, Product Control Unit Supervisor

NOA No. 12-0124.07

Expiration Date: 06/30/2015 Approval Date: 04/19/2012

Alutech United, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

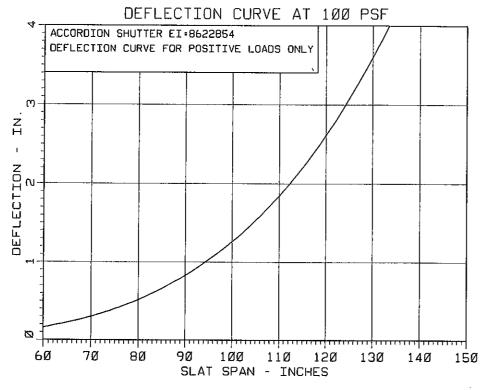
- В. **TESTS**
 - 1. None.
- C. **CALCULATIONS**
 - 1. Anchor calculation, dated December 12, 2011, 5 Sheets, prepared by Al-Faroog Corporation, signed and sealed by Javad Ahmad, P.E.
- D. **QUALITY ASSURANCE**
 - 1. By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).
- Ε. **MATERIAL CERTIFICATIONS**
 - 1. None.
- F. **STATEMENTS**
 - Statement letter of FBC 2010 conformance by Al-Farooq Corporation, dated December 06, 2011, signed and sealed by Javad Ahmad, P.E.

Helmy A. Makar, P.E., M.S.

PERA, Product Control Unit Supervisor NOA No. 12-0124,07

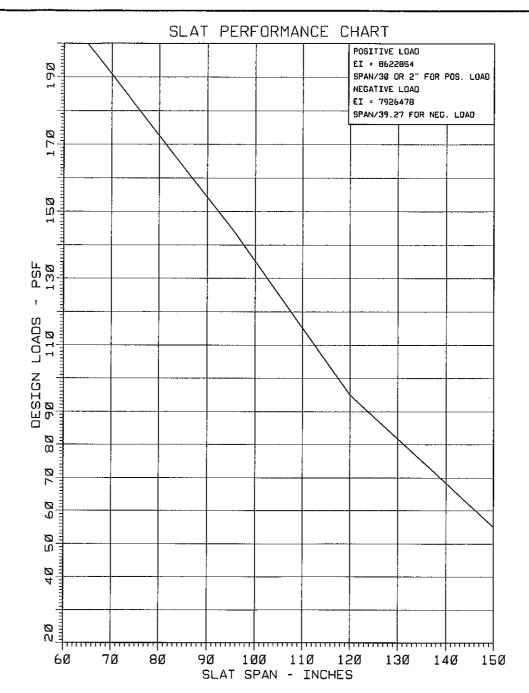
Expiration Date: 06/30/2015

Approval Date: 04/19/2012



MINIMUM SEPARATION	FROM	GLASS	
SEPARATION REQD. DUE TO WIND LOAD		SEPARATION REQD. DUE TO	
SHUTTER SPAN = H =	IN.	LARGE MISSILE IMPACT	
DESIGN LOAD = Pd =	PSF	FOR SLAT	SEPARATION
FACTOR = K = Pd/100 =	IN. IN.	SPANS UPTO SEPARATI	SEPARATION
READING FROM SPAN D. CURVE = D =		150"	3-1/2"
DEFLECTION AT Pd = K*D =	IN.		
MIN. SEPARATION REQD. = K*D+1" =	IN.		

FOR INSTALLATIONS UPTO 30' OF GRADE USE MAXIMUM OF WIND LOAD OR IMPACT LOAD REQUIREMENTS SHOWN ABOVE FOR INSTALLATIONS ABOVE 30' OF GRADE IGNORE LARGE MISSILE IMPACT REQUIREMENT. NOTE: NO PART OF SHUTTER SHALL BE UNDER 30' ABOVE GRADE TO WAIVE LARGE MISSILE IMPACT REQUIREMENT.



USE SLAT PERFORMANCE CHART TO VERIFY SLAT CAPACITY FOR THE REQUIRED DESIGN LOAD FOR THE PARTICULAR LOCATION.

DESIGN LOADS SHALL BE CALCULATED AS PER REQUIREMENTS OF ASCE 7-10.

GENERAL NOTES

- 1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2. DESIGN CRITERIA FOR ALUMINUM, MINIMUM MECHANICAL PROPERTIES. AND SAFETY FACTORS ARE IN ACCORDANCE WITH THE "ALUMINUM CONSTRUCTION MANUAL" LATEST EDITION.
- 3. ALUMINUM ALLOYS: ALL EXTRUSIONS SHALL BE ALLOY AS SHOWN
- STEEL SURFACES TO BE PLACED IN CONTACT WITH ALUMINUM SHALL BE GIVEN ONE COAT OF ZINC CHROMATE PRIMER IN ACCORDANCE WITH FEDERAL SPEC. NO. TTP-645, OR BE GALVANIZED.
- 5. ANCHORS SHALL BE AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- 6. ALL BOLTS SHALL BE STAINLESS STEEL, ALUMINUM ALLOY 2024-T4 OR 7075-T6, OR PLATED STEEL. WING NUTS TO BE OF ZINC ALLOY.
- DESIGN CRITERIA FOR SLATS: MAX DEFLECTION

 THE LESSER OF L/30 OR 2".
- 8. ANCHORING OR LOADING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- 9. A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

PRODUCT MARKING

A LABEL SHALL BE AFFIXED ON LOCKING MEMBER OF UNIT ABOVE LOCK WITH THE FOLLOWING STATEMENT.

ALUTECH UNITED INC. SELBYVILLE, DE. 'MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED' Engr: JAVAD AHMAD CIVIL FLA. PE 70592 MPR 0.4 2012

PRODUCT REVISED as complying with the Florida **Building Code** Acceptance No 12-0124.0 Expiration Date 06/30/20/5

Miami Dade Product Control

08-25-1/2.

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

SHUTTER

ALUMINUM ACCORDION

19975 FAX.

ALUTECH UNITED INC.
15 DIXON STREET
SELBYVILLE, DE. 19975
TEL. (800) 233-1144 FAX.

drawing no. 09-06

FOR INSTALLATION DETAILS SEE SHEETS 3 THRU 6.

sheet 1 of 7

